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1 A survey on peer-to-peer key management for mobile ad hoc networks

Johann Van Der Merwe, Dawoud Dawoud, Stephen McDonald

April 2007 Computing Surveys (CSUR) , Volume 39 Issue 1

Publisher: ACM

 Full text available: Pdf (872.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 185, Downloads (12 Months): 1568, Citation Count: 1

The article reviews the most popular peer-to-peer key management protocols for mobile ad hoc networks (MANETs). The protocols are subdivided into groups based on their design strategy or main characteristic. The article discusses and provides comments ...

Keywords: Mobile ad hoc networks, pairwise key management, peer-to-peer key management, security

2 Distributed collaborative key agreement and authentication protocols for dynamic peer groups

Patrick P. C. Lee, John C. S. Lui, David K. Y. Yau

April 2006 IEEE/ ACM Transactions on Networking (TON) , Volume 14 Issue 2

Publisher: IEEE Press

 Full text available: Pdf (837.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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We consider several distributed collaborative key agreement and authentication protocols for dynamic peer groups. There are several important characteristics which make this problem different from traditional secure group communication. They are: 1) ...

Keywords: authentication, dynamic peer groups, group key agreement, rekeying, secure group communication, security

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A role-based access in a hierarchical sensor network architecture to provide multilevel security

Biswajit Panja, Sanjay Kumar Madria, Bharat Bhargava

March 2008 Computer Communications , Volume 31 Issue 4

Publisher: Butterworth-Heinemann

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Most of the proposed security protocols for wireless sensor networks (WSN) are designed to provide the uniform level of security across the network. There are various multi-sensing applications like sensors monitoring airport runway control system which ...

Keywords: Access control, Hasse diagram, Security, Wireless sensor networks

4 Ariadne: a secure on-demand routing protocol for ad hoc networks

Yih-Chun Hu, Adrian Perrig, David B. Johnson

January 2005 Wireless Networks , Volume 11 Issue 1-2

Publisher: Kluwer Academic Publishers

Full text available:  [Pdf](#) (454.87 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 188, Citation Count: 7

An ad hoc network is a group of wireless mobile computers (or nodes), in which individual nodes cooperate by forwarding packets for each other to allow nodes to communicate beyond direct wireless transmission range. Prior research in ad hoc networking ...

Keywords: Ariadne, ad hoc network routing, mobile ad hoc network, secure ad hoc network routing, secure routing

5 Ariadne: a secure on-demand routing protocol for ad hoc networks

 Yih-Chun Hu, Adrian Perrig, David B. Johnson

September 2002 MobiCom '02: Proceedings of the 8th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available:  [Pdf](#) (308.15 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 155, Citation Count: 109

a secure on-demand routing protocol for ad hoc networks.

Keywords: ad hoc network routing, routing, security

6 [ODSBR: An on-demand secure Byzantine resilient routing protocol for wireless ad hoc networks](#)

 Baruch Awerbuch, Reza Curtimola, David Holmer, Cristina Nita-Rotaru, Herbert Rubens

January 2008 *Transactions on Information and System Security (TISSEC)*, Volume 10 Issue 4

Publisher: ACM

Full text available:  Pdf (2.02 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 279, Citation Count: 1

Ah hoc networks offer increased coverage by using multihop communication. This architecture makes services more vulnerable to internal attacks coming from compromised nodes that behave arbitrarily to disrupt the network, also referred to as Byzantine ...

Keywords: Ad hoc wireless networks, byzantine failures, on-demand routing, security

7 [Site Security Handbook](#)

 B. Fraser

September 1997 Site Security Handbook

Publisher: RFC Editor

Full text available:  Txt (191.77 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 26, Citation Count: 0

This handbook is a guide to developing computer security policies and procedures for sites that have systems on the Internet. The purpose of this handbook is to provide practical guidance to administrators trying to secure their information and services ...

8 [Identification of malicious nodes in an AODV pure ad hoc network through guard nodes](#)

 Imran Raza, S. A. Hussain

June 2008 *Computer Communications*, Volume 31 Issue 9

Publisher: Butterworth-Heinemann

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

This paper presents a guard node based scheme to identify malicious nodes in Ad hoc On-Demand Distance Vector (AODV) protocol. In this scheme each node calculates trust level of its neighboring nodes for route selection. Trust calculation process involves ...

Keywords: AODV, Ad hoc network, Guard node, Security, Trust value

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